

ECS/EMD Configuration Change Request

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Page(s)

1. Originator Alexander Schuster	2. Log Date: 11/17/03	3. CCR #: 03-0757	4. Rev: —	5. Tel: 925-0519	6. Rm #: 3008B	7. Org. COTS S/W									
8. CCR Title: Install Wu-ftp checksum patch for Sun in the VATC															
9. Originator Signature/Date A. Schuster /s/ 11/17/03			10. Class II	11. Type: CCR	12. Need Date: 11/17/03										
13. CCR Sponsor Signature/Date Carolyn Whitaker /s/ 11/17/03			14. Category of Change: Update ECS/EMD Baseline Doc		15. Priority: (If "Emergency" fill in Block 27). Emergency										
16. Documentation/Drawings Impacted (Review and submit checklist): 910-TDA-003, 910-TDA-023, 920-TDV-023			17. Schedule Impact:		18. CI(s) Affected: DPL										
19. Release Affected by this Change: 6A		20. Date due to Customer:		21. Estimated Cost: None - Under 100K											
22. Source Reference: <input checked="" type="checkbox"/> NCR (attach) <input type="checkbox"/> Action Item <input type="checkbox"/> Tech Ref. <input type="checkbox"/> GSFC <input type="checkbox"/> Other: ECSed38545															
23. Problem: (use additional Sheets if necessary) The only way to reliably prevent end users from downloading corrupt data from the Data Pool is to implement a checksum at download time. Currently, the only method for downloading data from the Data Pool is via Wu-ftp. John Farley customized Wu-ftp 2.6.2, rebuilt it, and tested it (with a special Sybase configuration it now needs) successfully in the PVC. Installation instructions have to be verified before they are released to the customer.															
24. Proposed Solution: (use additional sheets if necessary) Install the Wu-ftp patch on host t1mss06 in the VATC, and configure Wu-ftp and Sybase using installation instructions from John Farley (see Additional Sheet) and the following two tar files on lemmings. No license keys are required. <table border="1"> <thead> <tr> <th>Name</th> <th>Size</th> <th>Cksum</th> </tr> </thead> <tbody> <tr> <td>wu-ftp_tools.tar</td> <td>4945408</td> <td>2489250698</td> </tr> <tr> <td>wu_ftpd_ECS.tar</td> <td>3676672</td> <td>1280666579</td> </tr> </tbody> </table>							Name	Size	Cksum	wu-ftp_tools.tar	4945408	2489250698	wu_ftpd_ECS.tar	3676672	1280666579
Name	Size	Cksum													
wu-ftp_tools.tar	4945408	2489250698													
wu_ftpd_ECS.tar	3676672	1280666579													
25. Alternate Solution: (use additional sheets if necessary) None															
26. Consequences if Change(s) are not approved: (use additional sheets if necessary) Cannot verify accuracy of installation instructions before sending them to GSFC.															
27. Justification for Emergency (If Block 15 is "Emergency"): The patch is to be deployed on 11/18/03, and the installation instructions must be verified beforehand.															
28. Site(s) Affected: <input type="checkbox"/> EDF <input type="checkbox"/> PVC <input checked="" type="checkbox"/> VATC <input type="checkbox"/> EDC <input type="checkbox"/> GSFC <input type="checkbox"/> LaRC <input type="checkbox"/> NSIDC <input type="checkbox"/> SMC <input type="checkbox"/> AK <input type="checkbox"/> JPL <input type="checkbox"/> EOC <input type="checkbox"/> IDG Test Cell <input type="checkbox"/> Other															
29. Board Comments:			30. Work Assigned To:		31. CCR Closed Date:										
32. SCDV CCB Chair (Sign/Date): Byron V. Peters /s/ 11/17/03			Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS												
33. EDF CCB Chair (Sign/Date):			Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS												
34. ECS CCB Chair (Sign/Date):			Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ESDIS												

ADDITIONAL SHEET

CCR #: 03-0757 **Rev: — Originator:** Alexander Schuster

Telephone: 301-925-0519 **Office:** COTS S/W Maintenance

Title of Change: Install Wu-ftp checksum patch for Sun in the VATC

Checksumming wu-ftp Install Instructions (DRAFT)
Version 0.1 (17 Nov 2003)

These instructions assume a familiarity with the ECS delivered version of the wu-ftp daemon for datapool operation. The daemon is installed in /usr/local/sbin on the x0dps01 host. This delivery includes 2 tar files. The first tar file, wu_ftpd_ECS.tar contains the wu-ftp executable that has been modified to support checksum on download. The second tar file, wu-ftp_tools.tar contains configuration files and libraries that are used by the daemon at run-time. The following instructions show how to install this package. Note that the examples assume that the daemon is being installed for OPS mode. For installation in other modes, substitute the mode name (e.g., TS1) for OPS in the directions.

- 1) Create a new database user in the datapool Sybase server.
 - a. The user should be granted select access on the DIFile table in the Datapool database.
 - b. The user's max connections should be limited to the number of simultaneous ftp users.
 - c.
- 2) Install the wu-ftp_tools.tar files:
 - a. cd /datapool/OPS/user
 - b. tar -xvf wu-ftp_tools.tar
 - c. chown -R root:bin tools
- 3) Copy in the Sybase interfaces file.
 - a. cp /tools/sybOCv12.0.0/interfaces tools/sybOCv12.0.0. [Note that you may want to generate an interfaces file for this use only. In that case, add only the logical name of the Datapool Sybase server to the interface file.]
- 4) Change the owner and protections of the files under /datapool/OPS/user/tools
 - a. chown -R root:bin tools
 - b. chmod -R a-w tools
- 5) Back up the old ftp daemon
 - a. cd /usr/local/sbin (or to the directory where in.ftpd is kept at your DAAC).
 - b. mv in.ftpd in.ftpd.date (or something unique).
- 6) Install the new ftp daemon
 - a. tar -xvf wu_ftpd_ECS.tar
 - b. chown bin:bin in.ftpd
 - c. chmod -rw in.ftpd
 - d. chmod o-x in.ftpd
- 7) Edit the ftpd access configuration file. (/etc/ftpd/ftpaccess)
 - a. At the end of the ftp access file, add lines for each of the following parameters
 - i. dbpct -- number from 1-100. The percentage of files that you want to have checksummed.
 - ii. dbsrv -- The logical name of the Sybase server for the datapool database.
 - iii. dbuser -- The encrypted database username. . To encrypt the username, run
"/usr/ecs/OPS/CUSTOM/bin/OMS/ECOMCryptoCliDriver 0".
Enter the user name. The encrypted name will be printed
 - iv. dbpass -- The encrypted password of the database user. To encrypt the password, run
"/usr/ecs/OPS/CUSTOM/bin/OMS/ECOMCryptoCliDriver 0".
Enter the user's password. The encrypted password will be printed.

An example of the ftpaccess additions is:

```
dbpct 100
dbsrv p0acg05_svr
dbuser ba3daa88ffff
dbpass ffddfabc1124
```

